

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
20 January 2005 (20.01.2005)

PCT

(10) International Publication Number
WO 2005/004719 A1

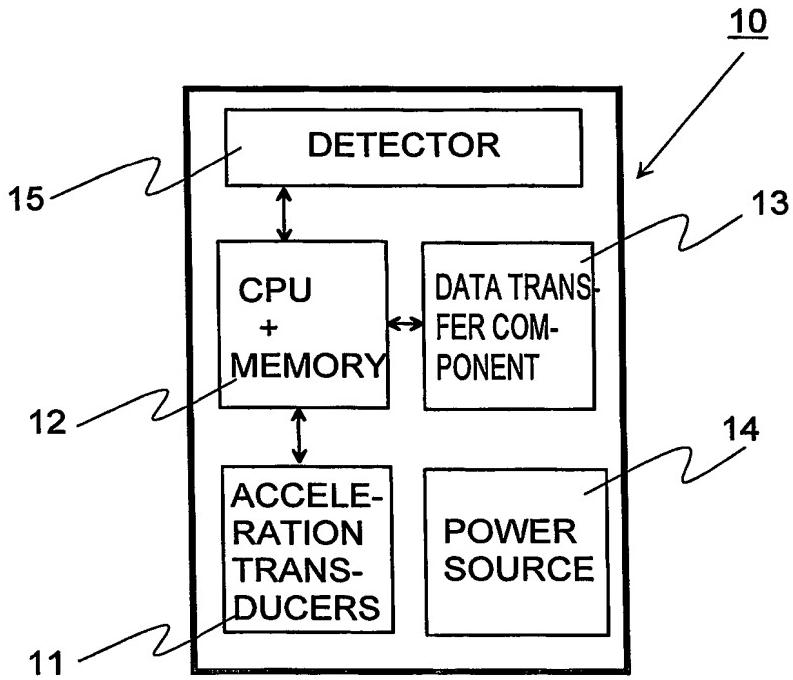
- (51) International Patent Classification⁷: A61B 5/103, G01P 15/18
- (74) Agent: BERGGREN OY AB; Lentokatu 2, FI-90460 Oulunsalo (FI).
- (21) International Application Number: PCT/FI2004/000435
- (22) International Filing Date: 8 July 2004 (08.07.2004)
- (25) Filing Language: Finnish
- (26) Publication Language: English
- (30) Priority Data: 20031046 9 July 2003 (09.07.2003) FI
- (71) Applicant (for all designated States except US): NEWTEST OY [FI/FI]; Kiviharjuntie 11, FI-90220 Oulu (FI).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): JÄMSEN, Ari [FI/FI]; Vesiuontie 23, FI-90420 Oulu (FI). GÖÖS, Janne [FI/FI]; Aropolku 16, FI-90440 Kempele (FI). KOIVUMAA, Veikko [FI/FI]; Kiertokuja 3, FI-02300 Espoo (FI). PUNKKA, Eero [FI/FI]; Ripusuontie 42 C, FI-00660 Helsinki (FI).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

[Continued on next page]

(54) Title: METHOD AND APPARATUS FOR DETECTING TYPES OF EXERCISE



(57) Abstract: The invention relates to a method and device for detecting the type of physical exercise, in which method the accelerations caused by the exercise of a person are measured by an exercise type detector (10) in three dimensions and in which characteristics describing the acceleration, so-called membership degree functions, are calculated from the measurement results, by means of which characteristics the type of exercise is detected. In the method according to the invention, only an identifier indicating the type of exercise is saved in the memory of the exercise type detector, for which reason the memory capacity required in the device is small.

WO 2005/004719 A1



- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.